

1 WHAT IS CLAIMED IS:

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3 1. A method of detecting the presence of a bipolar mood disorder susceptibility locus in
4 an individual comprising:

5 analyzing a sample of DNA from said individual for the presence of a DNA
6 polymorphism on the short arm of chromosome 18 between SAVA5 and ga203, wherein said
7 DNA polymorphism is associated with a form of bipolar mood disorder.

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9 2. The method of claim 1, wherein said DNA polymorphism is located on the short arm
10 of chromosome 18 between D18S1140 and ga203, inclusive.

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12 3. The method of claim 1, wherein said DNA polymorphism is located on the short arm
13 of chromosome 18 between SAVA5 and W3422, inclusive.

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15 4. The method of claim 1, wherein said DNA polymorphism is located on the short arm
16 of chromosome 18 between D18S1140 and W3422, inclusive.

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18 5. The method of claim 1, wherein said DNA polymorphism is located on the short arm
19 of chromosome 18 between D18S1140 and at201, inclusive.

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21 6. The method of claim 1, wherein said DNA polymorphism is located on the short arm
22 of chromosome 18 between D18S1140 and ta201, inclusive.

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24 7. The method of claim 1, wherein said DNA polymorphism is located on the short arm
25 of chromosome 18 between D18S59 and ta201, inclusive.

1 8. The method of claim 1, wherein said analyzing further comprises:

2 a. obtaining DNA samples from family members of said individual,

3 b. analyzing said DNA samples from family members for the presence of said DNA
4 polymorphism, and

5 c. correlating the presence or absence of the DNA polymorphism with a
6 phenotypic diagnosis of bipolar mood disorder for said individual and for said family
7 members.

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9 9. A method for detecting the presence of a DNA polymorphism linked to a gene
10 associated with bipolar mood disorder in an individual comprising:

11 a. typing blood relatives of said individual for a DNA polymorphism located
12 within a 500kb region of chromosome 18, wherein said region is located between SAVA5
13 and ga203, inclusive,

14 b. analyzing a DNA sample from said individual for the presence of said DNA
15 polymorphism.

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17 10. A method of genetically diagnosing bipolar mood disorder in an individual
18 comprising:

19 a. obtaining a DNA sample from said individual,

20 b. analyzing said DNA sample for the presence of a DNA polymorphism
21 associated with bipolar mood disorder, wherein said DNA polymorphism is located within a
22 500 kb region of chromosome 18, wherein said region is located between SAVA5 and ga203,
23 inclusive.

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25 11. A method of confirming a phenotypic diagnosis of bipolar mood disorder in an
26 individual comprising:

27 a. obtaining a DNA sample from said individual,

28 b. analyzing said DNA sample for the presence of a DNA polymorphism
29 associated with bipolar mood disorder, wherein said DNA polymorphism is located within a

1 500 kb region of chromosome 18, wherein said region is located between SAVA5 and ga203,
2 inclusive.
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4 12. The method of claim 10, wherein said individual has Spanish or Amerindian ancestry.
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6 13. A method of classifying subtypes of bipolar mood disorder comprising:

7 a. identifying one or more DNA polymorphisms located within a 500 kb region
8 of chromosome 18, wherein said region is located between SAVA5 and ga203, inclusive; and

9 b. analyzing DNA samples from individuals phenotypically diagnosed with
10 bipolar mood disorder for the presence or absence of one or more of said DNA
11 polymorphisms.
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14 14. A method of treating an individual diagnosed with bipolar mood disorder comprising:

15 a. identifying one or more DNA polymorphisms located within a 500 kb region
16 of chromosome 18, wherein said region is located between SAVA5 and ga203, inclusive; and

17 b. analyzing DNA samples from individuals phenotypically diagnosed with
18 bipolar mood disorder for the presence or absence of one or more of said DNA
19 polymorphisms, and

20 c. selecting a treatment plan that is most effective for individuals having a
21 particular genotype within said 500 kb region of chromosome 18.
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24 15. An isolated polynucleotide capable of selectively hybridizing with a DNA sample
25 from an individual phenotypically diagnosed with severe bipolar mood disorder, wherein said
26 polynucleotide does not selectively hybridize with a DNA sample from an individual not
27 affected by severe bipolar mood disorder, wherein said isolated polynucleotide selectively
28 hybridizes with a complementary polynucleotide within a 500 kb region of chromosome 18,
29 wherein said region is located between SAVA5 and ga203, inclusive.
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- 1 16. The isolated polynucleotide of claim 15, wherein said complementary polynucleotide is within a 500 kb region of chromosome 18, between SAVA5 and ga203, inclusive.

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